

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (Original) A subsea process assembly for separating a multiphase flow, the assembly comprising:
 - an inlet for a multiphase medium;
 - a pressure reducing means for reducing the pressure of the multiphase flow from the inlet and creating a source of energy;
 - a multiphase separator for separating the multiphase input into individual phases; and
 - a pumping system for, in use, pumping at least one of the desired individual phases to a delivery point by utilising of the energy from the source of energy.
2. (Original) A subsea process assembly according to claim 1, wherein the pressure reducing means is one of a hydraulic power device, electric power drive and a flow controller.
3. (Currently amended) A subsea process assembly according to ~~either claim 1 or claim 2~~, further comprising a control process module for controlling the pressure reducing means and the pumping system.
4. (Currently amended) A subsea process assembly according to ~~claim 1 any of the preceding claims~~, further comprising a power drive unit that generates hydraulic power from an external energy source.
5. (Original) A subsea process assembly according to claim 4, wherein the external energy source is either in the form of fluid or electrical energy.
6. (Original) A subsea process assembly according to claim 5, wherein the power drive unit and/or the pressure reducing means is driven by a fluid which provides energy in the form of liquid or gas.
7. (Original) A subsea process assembly according to claim 6, wherein the wellstream energy is achieved by creating a pressure differential in the multiphase flow between the inlet and the separator.

8. (Currently amended) A subsea process assembly according to claim 1~~any one of the preceding claims~~, further comprising a drive fluid inlet, the drive fluid being pumped to the module from an external point.

9. (Currently amended) A subsea process assembly according to claim 1~~any one of the preceding claims~~, wherein the pressure reducing means further comprises a means for creating a pressure differential in the drive fluid and thereby creating a further source of energy.

10. (Currently amended) A subsea process assembly according to ~~either claim 4 or claim 5~~, wherein the drive fluid is water from a water injection supply.

11. (Currently amended) A subsea process assembly according to claim 1~~any one of the preceding claims~~, wherein the pressure of the multiphase flow is reduced to below 25 atmospheres.

12. (Currently amended) A subsea process assembly according to claim 1~~any one of the preceding claims~~, wherein the multistage separator can be formed by at least one of the following: a centrifugal container, a vortex tube, a cyclone, helix container or auger, a gravity vertical or horizontal tank, a silo, a conductor pile housing, toroidal ring, a toroidal spiral combination or a spiral.

13. (Currently amended) A subsea process assembly according to claim 1~~any one of the preceding claims~~ wherein the separating process can separate the multiphase fluid into at least two of the following: a solids slurry, gas, oil and water.

14. (Currently amended) A subsea process assembly according to claim 1~~any one of the preceding claims~~, further comprising an individual pump for each phase.

15. (Original) A subsea process assembly according to claim 14, wherein the individual phase pumps are driven by the energy created in the assembly.

16. (Currently amended) A subsea process assembly according to claim 1~~any one of the preceding claims~~ further comprising of a solids removal unit for removing a solids slurry prior to separation.

17. (Currently amended) A subsea process assembly according to claim 1~~any one of the preceding claims~~, further comprising a means for, in use, injecting exhaust water into a well.

18. (Currently amended) A subsea process assembly according to claim 1~~any one of the preceding claims~~, further comprising a template, a piping mat and a retrievable subsea process module.

19. (Original) A subsea process assembly according to claim 18, wherein the retrievable subsea process module comprises a retrievable base module and retrievable mini modules.

20. (Currently amended) A subsea hydrocarbon recovery system comprising:

a subsea well for supplying a multiphase fluid;

a subsea process assembly comprising

an inlet for a multiphase medium;

a pressure reducing means for reducing the pressure of the multiphase flow from the inlet and creating a source of energy;

a multiphase separator for separating the multiphase input into individual phases; and

a pumping system for, in use, pumping at least one of the desired individual phases to a delivery point by utilising of the energy from the source of energy according to ~~any one of the preceding claims~~, wherein the inlet to the assembly is in fluid communication with the well; and

a delivery point for receiving the recovered hydrocarbon(s) from the subsea process assembly.

21. (Original) A subsea hydrocarbon recovery system according to claim 20, further comprising a well into which surplus products of the separation can be reinjected.

22. (Currently amended) A subsea hydrocarbon recovery system according to ~~either claim 20 or claim 21~~, further comprising a plurality of subsea wells, each having an associated subsea process module which supplies the recovered hydrocarbon(s) to the same delivery point.

23. (Currently amended) A subsea hydrocarbon recovery system according to claim 20~~any one of claims 20 to 22~~, wherein the delivery point is one of: a pipeline for removing the product from the field, a water injection well, a gas injection well or a producing well to achieve artificial lift.